

Species Tag:	17001	Species Name:	OH
Version:	3		Hydroxyl radical
Date:	Oct. 1990		X $^2\Pi$ states
Contributor:	H. M. Pickett		
Lines Listed:	670	Q(300.0)=	81.489
Freq. (GHz) <	20937	Q(225.0)=	60.298
Max. J:	50	Q(150.0)=	40.142
LOGSTR0=	-15.0	Q(75.00)=	22.751
LOGSTR1=	-20.0	Q(37.50)=	17.033
Isotope Corr.:	0.0	Q(18.75)=	16.003
Egy. ( $\text{cm}^{-1}$ ) >	0.0	Q(9.375)=	15.929
$\mu_a$ =	1.667	A=	
$\mu_b$ =		B=	556141.
$\mu_c$ =		C=	

The microwave data have been reported in R. A. Beaudet and R. L. Poynter, 1978, J. Phys. Chem. Ref. Data **7**, 311. Far-infrared data are from: G. A. Blake, J. Farhoomand, and H. M. Pickett, 1986, J. Mol. Spect. **115**, 226. J. Farhoomand, G. A. Blake, and H. M. Pickett, 1985, Astrophys. J. **291**, L19. J. M. Brown *et al.*, 1986, Astrophys. J. **307**, 410.

The mid-infrared lines of B. Lemoine, M. Bogey, and J. L. Destombes, 1985, Chem. Phys. Lett. **117**, 532, were also used in the fit. The calculation involved fitting the spectra to effective parameters for the two  $^2\Pi$  states using a Hund's case (b) basis.